AMENDMENTS TO THE CLAIMS

- (Currently Amended) An apparatus for forming at least a portion of a semiconductor device, said apparatus comprising:
 - a reaction chamber for heating a substrate on which the semiconductor device is to be formed:
 - a first source for supplying a first treating gas to said reaction chamber;
 - a first pumping system <u>coupled to said reaction chamber</u> for maintaining said reaction chamber at a first vacuum pressure during the supplying of said first treating gas;
 - a second source for supplying a second treating gas to said reaction chamber;
 - a second pumping system <u>coupled to said reaction chamber</u> for maintaining said reaction chamber at a second vacuum pressure during the supplying of said second treating gas, said second vacuum pressure being lower than said first vacuum pressure; and
 - a third pumping system <u>coupled to said reaction chamber</u> for transitioning said reaction chamber between said first vacuum pressure and said second vacuum pressure.
- (Original) An apparatus according to claim 1, wherein said reaction chamber, said first source and said first pumping system form at least part of a Low Pressure Chemical Vapor Deposition (LPCVD) system.
- (Original) An apparatus according to claim 2, wherein said reaction chamber, said second source and said second pumping system form at least part of an Ultra High Vacuum-Chemical Vapor Deposition (UHV-CVD) system.
- (Original) An apparatus according to claim 1, further comprising a load-lock chamber coupled to said reaction chamber for transferring said substrate between said reaction

BUR9-2000-0077-US1 09/683.088 chamber and an external ambient, said load-lock chamber also being coupled to a turbomolecular pump and a mechanical pump in series.

- (Currently Amended) An apparatus according to claim 1, wherein said third pumping system is coupled to said reaction chamber and comprises a cryopumy and a small pump arranged in series to remove contaminates from said reaction chamber after the supplying of said first treating eas.
- 6. (Original) An apparatus according to claim 3, further comprising a first pumping system coupled to one end of said reaction chamber and forming therewith a portion of said LPCVD system, and a second pumping system coupled to another end of said reaction chamber and forming therewith a portion of said UHV-CVD system; wherein said first pumping system is also coupled to a roots blower and a mechanical pump in series, and wherein said second pumping system is also coupled to a trobusciectural pump. a roots blower and a mechanical pump in series.
- (Original) An apparatus according to claim 6, wherein said third pumping system is coupled to said reaction chamber and comprises a cryopump in series with a scroll pump for removing contaminants from said reaction chamber.
- 8. (Original) An apparatus according to claim 1, wherein said reaction chamber, said first source and said first pumping system form at least a part of a Low Pressure Chemical Vapor Deposition (LPCVD) system for prebaking said substrate in a hydrogen containing gas and for forming silicon containing layers on said substrate; and wherein said reaction chamber, said second source and said second pumping system form at least part of an Ultra High Vacuum-Chemical Vapor Deposition (UHV-CVD) system for forming germanium (Ge), silicon (Si) or SiGe containing layers on said substrate.

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- (Original) An apparatus according to claim 1, wherein said first pumping system comprises a roots blower and a mechanical pump in series.
- (Original) An apparatus according to claim 1, wherein said second pumping system comprises a turbomolecular pump, a roots blower and a mechanical pump in series.
- (Original) An apparatus according to claim 1, wherein said third pumping system comprises a cryopump and a scroll pump in series.
- 12. (Original) An apparatus according to claim 1, wherein said first pumping system comprises a roots blower and a mechanical pump in series; wherein said second pumping system comprises a turbomolecular pump, a roots blower and a mechanical pump in series; and wherein said first pumping system and anid second pumping system share the same roots blower and mechanical pump.

Claims 13-20. (Canceled)

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